

NILUFER KAHRAMAN

Professor of Measurement and Statistics in Education and Psychology

General Information

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Education

Post Doctorate	Catholic University of Leuven , Leuven, Belgium, 2005-2006 Program of Study: Higher Cognition and Individual Differences, Department of Psychology
PhD	Florida State University , Tallahassee, FL, USA, 1997-2001 Program of Study: Measurement and Statistics, Department of Educational Research Minor: Statistics Dissertation: <i>Analyzing multidimensional response data structure represented by unidimensional IRT models</i>
MEd	University of Pittsburgh , Pittsburgh, PA, USA, 1995-1997 Program of Study: Research Methodology, Department of Educational Psychology
BA	Hacettepe University , Ankara, Turkiye, 1998-1993 Program of Study: Testing and Evaluation in Education, Department of Educational Sciences

Research Interests

- **Quantitative Methods:** including Classical Test Theory, Item Response Theory; Hierarchical Linear Modeling; Structural Equation Modeling; Multilevel Modeling; Growth Curve Modeling, Dynamic Factor and Time-series Analyses.
- **Modeling complex data structures:** Multidimensional, heterogeneous response data; psychophysical, intense data; longitudinal data, time series.
- **Validity:** Extracting construct-relevant or curriculum-related evidence from complex performance data; Designing innovative performance tasks including dynamic case simulations with rapid post-response feedback; VR training and test experiments
- **Quasi-experimental research designs:** Theory-based, evidence-centered, ecological momentary and person-centered approaches in the study of reading and problem/task solving strategies; Large scale

assessment; test experiments focusing on reading, emotion perception, empathy, interpersonal communication skills, well-being, resilience among College Students.

- **Eye tracking-enhanced test experiments:** Eye tracking, EEG and VR test experiments in the study of individual differences in attention, perception, and cognition processes of individuals while processing various stimuli - including task formats with visual and as well as immersive VR environments.
- **Psychometric model development:** Developing Psychometric Screening Models specifically designed to screen the reliability and validity of computer and high technology assisted assessment tools, particularly those used to collect intense longitudinal/process data during Eye tracking, EEG and VR experiments.

Teaching and Curriculum Development (Selected)

Year	Course
2023-2024	Introduction to Statistics (Undergraduate)*
2023-2024	Test Theory 2 (IRT) (Graduate)
2022-2023	Measurement and Evaluation (Undergraduate)
2022-2023	Statistical Programming with R (Graduate)*
2022-2023	Longitudinal Latent Trait Modeling (Graduate)*
2021-2022	Research and Ethics (Graduate)

* Curriculum Development

Professional and Related Experience

Jan. 2015 to Sep. 2025	Professor, Gazi University, Ankara, Turkiye Department of Educational Sciences, College of Education, Responsibilities included grant writing, research, supervising master and PhD students, curriculum development, teaching undergraduate and graduate-level courses First five years, Associate Professor
Dec. 2024 to May 2025	Researcher, Professor, Southern Methodist University, Dallas, TX, USA Department of Education Policy & Leadership, Simmons School of Education and Development Collaboration with Professor Dr. Akihito Kamata on Project titled "Longitudinal modeling of eye tracking and EEG-enhanced performance data to detect distinct cognitive processes and facilitate learning"
Feb. 2014 to Dec. 2015	Associate Professor, Gazi University, Ankara, Turkiye Department of Educational Sciences, College of Education, Responsibilities included research, supervising master and PhD students, teaching undergraduate and graduate-level courses
Aug. 2013 to Jan. 2014	Assistant Professor, Baskent University, Ankara, Turkiye

Department of Educational Sciences, College of Education,
Responsibilities included conducting research, teaching undergraduate courses

Last four months, Associate Professor

- May 2013 to Dec. 2013 **Consultant Senior Measurement Scientist**, National Board of Medical Examiners, Philadelphia, PA, USA
Consulting as a measurement expert with internal clients
- Jan. 2010 to Apr. 2013 **Senior Measurement Scientist**, National Board of Medical Examiners, Philadelphia, Philadelphia, PA, USA
Responsibilities include managing, planning, conducting and supervising research projects in the field of measurement and with internal and external clients
- Oct. 2006 to Dec. 2010 **Measurement Scientist**, National Board of Medical Examiners, Philadelphia, PA, USA
Responsibilities include planning and conducting research projects in the field of measurement and consulting with internal and external clients
- March 2005 to May 2006 **Post doctorate, Researcher Fellow**, University of Leuven, Leuven, Belgium
Research group of Higher Cognition and Individual Differences, Department of Psychology
Research on multilevel modelling
- Sep. 2003 to Nov. 2003 Visiting **Professor of Quantitative Methods**, American University of Sharjah, UAE,
Department of Information Management Sciences, College of Business,
Responsibilities included teaching undergraduate Statistics courses
- Nov. 2001 to June 2006 **Assistant Professor**, Pamukkale University, Denizli, Turkiye
Department of Educational Sciences, College of Education,
Responsibilities included consulting with external clients, conducting research, teaching undergraduate and graduate-level courses
- Jan. 2000 to Dec. 2000 **Teaching Assistant**, Florida State University
Department of Information Management Sciences, College of Business, Tallahassee, FL
Responsibilities included teaching undergraduate statistics courses
- Aug. 1999 to Dec. 1999 **Teaching Assistant**, Florida State University
Department of Educational Research, College of Education, Tallahassee, FL
Delivered parts of lectures, assisted students in using statistical package programs such as SAS, SPSS and LISREL

- June 1999 to July 1999 **Summer Intern**, American College Testing Inc., Iowa City, IA, USA
Research on alternative Item Response Theory scoring procedures
- March 1998 to July 1998 **Data analyst**, Board of Regents Office, State University Systems of Florida, Tallahassee, FL, USA
Analyzed and reported data provided by the State Universities of Florida

Grants and Research Projects

- An Alternative VR Module for the Assessment of Communication Skill Development of Pre-service Teachers.* TUBITAK, Social and Human Sciences Research Support Group, ARDEB, #Grant 120K142. Principal Investigator. March 2022 - September 2024.
- A Meta-Cognitive Skills Inventory with Biometric Measurement Tools.* Gazi University R&D Center, #Grant 2019/1. Principal Investigator. January 2019 – December 2022.
- Inclusive Early Childhood Education Project for Children with Disabilities.* European Union & UNICEF #Grant EDU/TURA/2017-M. Researcher, with Necdet Karasu, Gazi University. October 2017 – May 2020.
- Validity of Integrated Cases.* TUBITAK, Scientist Support Program BİDEB, 2232. Award# 114C005. Principal Investigator. January 2014 - December 2015.

Publications in Peer-Reviewed Journals (Selected)

- Su Ozenir, O. & Kahraman, N. (2024). Investigation of Individual Well-being with Autoregressive Model and Dynamic factor Analysis, *Journal of Academic Social Science*, 362-375, 12, 155.
- Kahraman, N., Boz, E. S., Akbaş, D., Çorbacı, E. C., Işık, Ş., Atalay, N. Ü., ... & Sağıroğlu, Ş. (2023). Alternative Confirmatory Factor Analytic Models for Examining Preservice Teachers' Non-Cognitive Skills. *Bartın University Journal of Faculty of Education*, 12(3), 460-470.
- Sözer Boz, E., & Kahraman, N. (2023). Latent Trajectories of Subjective Well-Being: An Application of Latent Growth Curve and Latent Class Growth Modeling. *International Journal of Contemporary Educational Research*, 10(2), 411-423.
- Akbas, D. & Kahraman, N. (2023). Latent Transition Modeling for Categorical Latent Variables: An Application Using Longitudinal Resilience Data, *International Journal of Progressive Education*, 2834-7919, 19, 6, 20.
- Sozer Boz, E., Akbas, D. & Kahraman, N. (2023). Modeling unobserved heterogeneity using person-centered approaches: Latent profiles of preservice teachers emotional awareness, *International Journal of Assessment Tools in Education*, 2023, 2148-7456, 10, 1, 129-144.
- Corbaci, E.C., & Kahraman, N. (2022). Latent Growth Modeling of Item Process Data Derived From Eye-tracking Technology: An Experimental Study Investigating Reading Behavior of Examinees When Answering Multiple-Choice Test Items, *Journal of Measurement and Evaluation in Education and Psychology*, 1309-6575, 13, 3, 18.
- Sozer Boz, E., Eren, B., & Kahraman, (2021) Investigating Measurement Invariance for Longitudinal

Assessments: An Application Using Repeated Data Over Four Weeks, *Gazi School of Education Journal*, 1301-9058, 41, 2.

Sozer Boz, E. & Kahraman, (2021), Investigation of Psychometric Properties of Likert Items with the Same Response Categories Using Polytomous Item Response Theory Models, *Journal of Measurement and Evaluation in Education and Psychology*, 1309-6575, 12, 2, 129-146.

Sayin, A. & Kahraman, N. (2020). A Measurement Tool for Repeated Measurement of Assessment of University Students' Writing Skill: Development and Evaluation, *Journal of Measurement and Evaluation in Education and Psychology*, 1309-6575, 11, 2-130.

Akbas, D., & Kahraman, N. (2020). A Longitudinal Assessment Design for Modeling College Students' Psychological Resilience. *Marmara University Atatürk School of Educational Sciences Journal*, 51(51), 220-242.

Kahraman, N., Akbas, D., & Sozer Boz, E. (2019) Longitudinal Assessment Designs for Non-cognitive Constructs: Applications Using Time-series Data from An Emotion Ruler Field Study, *Izzet Baysal University School of Education Journal*, 2148-4929, 19, 1, 257-269.

Sozer, E., & Kahraman, N. (2019). Collecting Validity Evidence for Longitudinal Measurement Designs Using Multi-Trait Multi-Method and Latent Growth Curve Models. *Elementary Education Online*, 18(3), 1378-1378.

Kahraman, N., & Brown, C. B. (2015). Using multigroup confirmatory factor analysis to test measurement invariance in raters: a clinical skills examination application. *Applied Measurement in Education*, 28(4), 350-366.

Kahraman, N. (2014). An Explanatory Item Response Theory Approach for a Computer-Based Case Simulation Test. *Eurasian Journal of Educational Research*, 54, 117-134.

Kahraman, N. (2013). Unidimensional interpretations for multidimensional test items. *Journal of Educational Measurement*, 50(2), 227-246.

Brown, C. & Kahraman, N. (2013). Exploring Psychometric Models to Enhance Standardized Patient Quality Assurance: Evaluating Standardized Patient Performance over Time. *Academic Medicine*. 88 (6) 1-6. DOI: 10.1097/ACM.0b013e3182901647

Kahraman, N., Cuddy, M. & Clauser, B. E. (2013). Modeling pacing behavior and test speededness using latent growth curve models. *Applied Psychological Measurement*. DOI: 10.1177/0146621613477236

Raymond, M. R., Swygert, K. A., & Kahraman, N. (2012). Psychometric Equivalence of Ratings for Repeat Examinees on a Performance Assessment for Physician Licensure. *Journal of Educational Measurement*. 49 (4), 339-361. DOI: 10.1111/j.1745-3984.2012.00180.x

Raymond, M. R., Swygert, K. A., & Kahraman, N. (2012). Measurement Precision for Repeat Examinees on a Standardized Patient Examination. *Advances in Health Science Education*. 17 (3), 325-337.

Kahraman, N., De Champlain, A. & Raymond, M. (2012) Modelling the Psychometric

Properties of Complex Performance Assessment Tasks using Confirmatory Factor Analysis: A Multi-stage Model for Calibrating Tasks. *Applied Measurement in Education*. 25 (1), 79-95.

Raymond, M. R., Kahraman, N., Swygert, K. A., & Balog, K. P. (2011). Evaluating Construct Equivalence and Criterion-Related Validity Evidence for Repeat Examinees on a Standardized Patient Examination. *Academic Medicine*. 86 (10), 1253-1259.

Kahraman, N. & Thompson, T. (2011) Relating unidimensional IRT parameters to a multidimensional response space: A review of two alternative projection IRT models for subscale scores. *Journal of Educational Measurement*. 48 (2), 146-164.

Clauser, B. E., Balog, K., Harik, P., Mee, J. & Kahraman, N. (2009). A Multivariate Generalizability Analysis of History-taking and Physical-examination Scores from the USMLE Step 2 Clinical Skills Examination *Academic Medicine*. *Academic Medicine*. 84 (10), S86-S89.

Kahraman, N., DeBoeck, P. & Janssen, R. (2009). Modeling DIF in Complex Response Data Using Test Design Strategies. *International Journal of Testing*. Vol. 9, 2, 151-166.

Kahraman, N, Clauser, BE & Margolis, M. (2008). A Comparison of Alternative Item Weighting Strategies on the Data Gathering component of A Clinical Skills Performance Assessment. *Academic Medicine*. 83 (10), S72-S75.

Kahraman, N. & Kamata, A. (2004). Increasing the Precision of Subscale Scores by Using Out-of-scale Information. *Applied Psychological Measurement*. 28 (6), 407-426.

Journal Articles under Review

Kahraman, N., & Haphap, A. Using a virtual reality simulation school and realistic 3D characters to facilitate assessment and training practices of Communication and Interpersonal Skills for College of Education Students

Akbas, D., Corbaci, E.C., & Kahraman, N., Latent profile analysis of eye-tracking data: An investigation of item processing patterns for a ten-item multiple-choice test measuring reading comprehension ability

Book Chapter

Kahraman, N, Cavdar, D, & Sozer, E., (2018). A Longitudinal Perspective for Evaluating Individual Differences. In Tug, N. (Ed.), *Evaluation-Based Differentiation: Let's differentiate but why?* Private Schools Association of Turkiye. ISBN 978-605-85128-8-7

Presentations at International Conferences (Selected)

Kahraman, N., & Corbaci, E. C., Latent growth analysis of serial eye-fixation indicators for multiple-choice test items, Paper presented at the annual meeting of the International Test Commission (ITC), Granada, Spain, July 2024

Sozer Boz, E., Akbas, D., & Kahraman, N., Dynamic Structural Equation Modeling of Daily Happiness and Stress

Data, Paper presented at the annual meeting of the International Test Commission, Granada, Spain, July 2024

Corbaci, E. C., & Kahraman, N., Distractor Analysis of Eye Movements for Multiple-Choice Questions, Paper presented at the annual meeting of the International Test Commission, Granada, Spain, July 2024

Akbas, D., Kahraman, N., & Corbaci, E. C., Latent Profile Analysis of Examinees' Multiple-Choice Item Processing Behavior Using Segment-Specific Eye-Fixation Metrics., Paper presented at the annual meeting of the International Test Commission, Granada, Spain, July 2024

Haphap, A. & Kahraman, N., Measuring Communication and Interpersonal Skills of Pre-Service Teachers: An Experimental Study Using Frontal Alpha Asymmetry Indicators, Paper presented at the annual meeting of the International Test Commission, Granada, Spain, July 2024

Haphap A., & Kahraman N., An EEG Test Experiment for Scenario-Based Assessment of Communication and Interpersonal Skills of College Students, Paper presented at the annual meeting of the 14th Asian Conference on Psychology & the Behavioral Sciences, Tokyo, Japan, March 2024

Haphap A., & Kahraman N., Evaluating the validity of a scenario-based scale developed to assess College of Education Students' Communication and Interpersonal Skills. Paper presented at the annual meeting of the X International Eurasian Educational Research Congress, Ankara, June 2023

Akbas, D., Sozer Boz, E., Corbaci, E. C., & Kahraman, N., Latent Profile Analysis of Pre-service Teachers' Personality Types Using the Big Five Personality Data. Paper presented at the annual meeting of the IXth International Eurasian Educational Research Congress, Izmir, Turkiye, June 2022

Sozer Boz, E., Eren, B., & Kahraman, N., A Study on Measurement Invariance in Longitudinal Data: Repeated Observation Invariance for the Positive Mood Scale, Paper presented at the annual meeting of the 6th International Eurasian Educational Research Congress, Ankara, Turkiye, June 2019.

Turker, E., Goren, S., & Kahraman, N., Graded Response Models for Evaluating Rater Performance, Paper presented at the annual meeting of the 6th International Congress on Measurement and Evaluation in Education and Psychology, Prizen, Kosovo, September 2018

Savul, G., & Kahraman, N., Multidimensional Scaling of Emotional perception Scale Ratings. Paper presented at the annual meeting of the Vth International Eurasian Educational Research Congress, Ankara, Turkiye, May 2018

Kahraman N., Cavdar, D. & Sozer, E. Distributional Characteristics of Individual Differences in Affective Domain Measures. Paper presented at the annual meeting of the 26th International Educational Sciences Conference, Antalya, Turkiye, April 2017

Yildirim, H., Uysal, M., & Kahraman, N. A Multilevel Modeling Approach to Determine the Factors Influencing the Usefulness of Portfolio Assessment. . Paper presented at the annual meeting of the International Congress on Education for the Future: Issues and Challenges, Ankara, May 2015

Kahraman, N., & Brown, C. Latent Trait Models for Clinical Skills Performance Examinations Evaluating Component Skill Specific Difficulty Discrimination and Error Variances of Integrated Cases. Paper presented at the annual meeting of the 9th International Test Commission Conference, San Sebastian, Spain, July 2014

- Kahraman, N., Harik, P., Cuddy, M. & Clauser, B. E. Information Available in Item Review Patterns When Evaluating Test Speededness: A USMLE Step 2 Clinical Knowledge Examination Example. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, California. April 2013
- Kahraman, N., Brown, C. & Sanger, J. A Closer Look at the Psychometric Characteristics of Tasks in a Standardized Patient Examination: Examining Patient-rater and Clinical Content Related Effects on Task Parameters. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, BC, Canada, April 2012.
- Brown, C., Kahraman, N. & Sanger, J. An Evaluation of Standardized Patient Performance over Time. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada, April 2012.
- Raymond, M. R, Swygert, K. A. & Kahraman, N. Conditional SEMs for Examinees Who Repeat Performance Assessments. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, BC, Canada, April 2012.
- Kahraman, N., Harik, P., Cuddy, M. & Clauser, B. E. Modeling response times and examinees' pacing behavior using latent growth curve models. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans, Louisiana, April 2011
- Raymond, M. R, Kahraman, N, Swygert, K. A. & Balog, K. P. Score gains on performance tests for repeat examinees; an evaluation of construct and criterion-related evidence. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, Louisiana, April 2011.
- Kahraman, N., Cuddy, M., Harik, P. & Clauser, B. E. Growth curve modeling for response times. Paper presented at the annual meeting of the Psychometric Society, Athens, Georgia, July 2010.
- Kahraman, N. Within-item multidimensionality in unidimensional tests. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, Colorado, May 2010
- Feinberg, R. A., Kahraman, N., Swygert, K. A. & Nandakumar, R. Modeling computer-based case simulations using mixed models. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, Colorado, and May 2010
- Kahraman, N., DeChamplain, A. & Gessaroli, M. Modeling Complex Task Features: Modeling Method and Trait Effects using Confirmatory Factor Analysis. Paper presented at the annual meeting of the American Educational Research Association, San Diego, California, April 2009
- Kahraman, N & Thompson, T. Relating unidimensional IRT parameters to a multidimensional response space: A comparison of two alternative dimensionality reduction approaches. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, California, April 2009
- Kahraman, N, Clauser, BE & Margolis, M. An Examination of the Impact of Subtask Weighting on Components of a High-Stakes Performance Assessment. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, and April 2008
- Kahraman, N., DeBoeck, P. & Janssen, R. (2006). Modeling DIF in Complex Response Data Using Test Design

Strategies. Paper presented at the annual meeting of the Psychometric Society, Montreal, Canada, June 2006

Invited Talks and Workshops (Selected)

Kahraman, N, (November 2022). Assessment of Change and Development: Longitudinal Measurement and Research Design: Theory, Practice and Analysis. Workshop, International Education Congress. Antalya, Turkey.

Kahraman, N, Corbaci, E.C., Akbas, D & Sozer Boz, E., (September 2022). Latest Developments on Time Series Analysis in Psychometrics: Modeling Change with Latent Growth and Transition Models. Workshop, Measurement and Evaluation in Education and Psychology Congress. Izmir, Turkey.

Kahraman, N, (September 2022) Test Development and IRT. Invited Speaker, CAT from Theory to Application Symposium, Bogazici University, İstanbul

Kahraman, N, (May 2021). Monitoring Change and Development with Longitudinal Research Designs. Invited Speaker, National Congress on Measurement and Evaluation Practices in Education. Istanbul, Turkey.

Kahraman, N, (September 2020). Longitudinal Measurement Designs and Time Series Measurements. Workshop, EJER Congress, Online.

Kahraman, N, Cavdar, D, & Sozer, E., (December 2, 2017). A Longitudinal Perspective for Evaluating Individual Differences. Invited keynote address, 8th K-12 Education Symposium, Private Schools Association of Turkey, Istanbul, Turkey.

Advising (PhD and MA)

PhD Thesis Advisor for Ozgul Suozenir, Dynamic Factor Analysis on Intensive Response Well-being Data. Defended Summer 2024.

PhD Thesis Advisor for E. Cihat Corbaci, Longitudinal Analysis of Eye tracking data collected for five multiple-choice test items measuring reading comprehension in English. Defended Spring 2022.

PhD Thesis Advisor for Halime Yidirim Hos, Investigation of Response Styles in Rating Scales according to Mixture and Multi-process IRT Methods. Defended Fall 2022.

MA Thesis Advisor for Omer Topraktepe, Two and three dimensional innovative item formats in monitoring the development of reading comprehension and emotional literacy skills of primary school 4th grade students in Turkish lessons. Defended Fall 2022.

PhD Thesis Advisor for Esra Sozer, Latent growth curve modeling and latent class growth analysis: An application of prospective subjective well-being. Defended Spring 2021.

PhD Thesis Advisor for Derya Akbas, Latent class and transition models for modeling qualitative individual differences: An application on longitudinal resilience data. Defended Spring 2021.

MA Thesis Advisor for Fatma Nur Aydın, A longitudinal assessment design that can be used to track collaborative problem solving skills of 7th grade students in mathematics. Defended Spring 2020.

MA Thesis Advisor for Sebahat Goren Kaya, Development and evaluation of visually enhanced innovative item types. Defended Spring 2018.

Mentoring Undergraduate and Graduate Students

Ahmet Haphap, September 2022–2024
 Feyzanur Kaymaz February 2024 – April 2024
 Irem Doruk, August 2022 - January 2023

Awards and Honors

- 2024-2025 International Research Fellow, 2219 TUBITAK, Ankara, Turkiye
- 2021-2023 Grant 120K142 TUBITAK, Ankara, Turkiye
- 2019-2021 Gazi University Research Grant, Ankara, Turkiye
- 2013-2015 Grant 2232 TUBITAK, Ankara, Turkiye
- 2005 Research fellow, University of Leuven, Leuven, Belgium
- 1999 Summer intern, American College Testing Inc., Iowa City, IA
- 1995-2001 Full scholarship to do graduate studies abroad, Ministry of Education, Turkiye

Reviewer for Referred Journals (Selected List)

- Journal of Educational Measurement
- Applied Psychological Measurement
- Applied Measurement in Education
- Journal of Educational and Behavioral Statistics
- Advances in Health Sciences Education Theory and Practice
- International Journal of Assessment Tools in Education
- NBME Stemmler Fund
- Educational assessment, Evaluation and Accountability
- International Journal of Assessment Tools in Education
- Bogazici University Journal of Education

Professional Activities (Selected List)

- Referee, Peer reviewer TUBITAK 2020–present.
- Member, Advisory Council, TUBITAK. June 2023–February 2024.
- Observer, Panel Evaluation, TUBITAK. 2018.
- Editorial Board Membership, Baskent University Journal of Education
- Advisory Board, CAT Symposium, Bogazici University, İstanbul, 2023
- Advisory Board, International Educational Congress, 2023
- Advisory Board, EDUCOBGRESS, 2022.
- Advisory Board, CMEEP, 2022.

Collaborators and Co-Editors

Kamata A., De Boeck, P., Jasseen, R., Clauser B, J, DeCamplain, N., Gessaroli, M., Margolis, M., Thompson, T., Davey, T., Raymond, M., Brown, C., Sanger, J., Akbas, D., Sozer Boz, E., Corbaci, E. C., Haphap, A.

Graduate and Post-Graduate Advisors

Akihito Kamata, PhD, and Paul DeBoeck, PhD